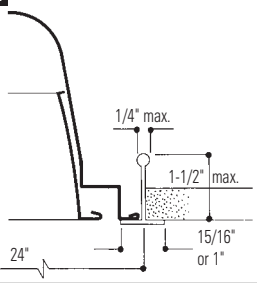
Deepcel *Plus* **DPA2G12LS232**

2' x 4' Recessed Fluorescent, 3", 12 Cell Parabolic Louver Static or Air Supply/Return, 2 Lamp, T8 or T5

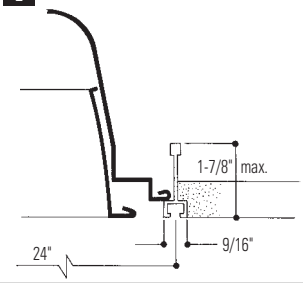
- 5" deep body.
- 80.0% efficient.
- Clean contoured interior.
- Eyeleted heat removal vents in fixture ends.
- One piece housing.
- Black exterior for cooler ballast operating temperature.
- Hemmed over side rails for safe handling.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips (patent no. 5,072,344).
- Pre-anodized aluminum parabolic louver.
- Vertical grain louver eliminates reflected lamp images on cross baffle.
- Spring loaded latches.
- 18 gauge steel hinges.
- Louver frame with integral positive light stop.
- Louver has protective film dust guard.
- Construction to meet NYC Code or Chicago Plenum requirements is available.

Mounting Methods

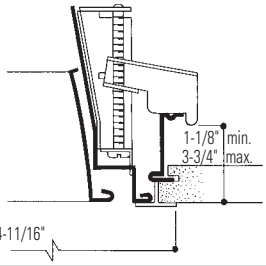
G exposed T-grid ceiling.



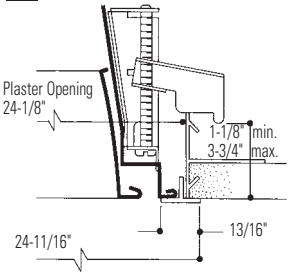
T exposed slot T-grid ceiling.



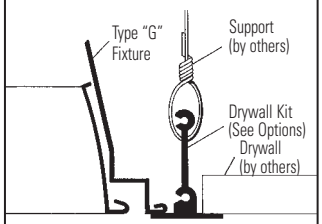
F concealed Z-spline ceiling.



F plaster ceiling/flanged.

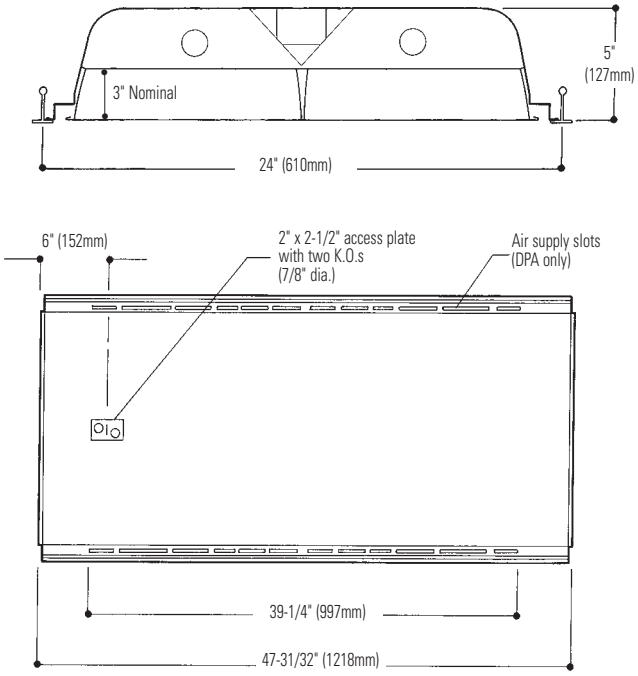


drywall kit.



Order Catalog Number: **FK92X4**.

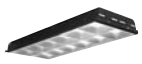
Dimensions



Job Information	**Type:**
Job Name:	
Cat. No.:	
Lamp(s):	
Volts/Ballast:	

Lightolier a Genlyte company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
© 2007 a Genlyte company

LIGHTOLIER®



Deepcel *Plus* **DPA2G12LS232**

2' x 4' Recessed Fluorescent, 3", 12 Cell Parabolic Louver Static or Air/Return, 2 Lamp, T8 or T5

Photometry

Model No. DPA2G12LS232120SO

itl boulder
THE LIGHTING TESTING INDUSTRY
INDEPENDENT TESTING LABORATORIES, INC. • 3386 LONGHORN ROAD, BOULDER, CO 80302 USA • PHONE (303) 442-1755
FAX (303) 449-5274

REPORT NUMBER: ITL49787 DATE: 03/20/00
PREPARED FOR: LIGHTOLIER
CATALOG NUMBER: DPS2G12LS232120SO
LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, FABRICATED WHITE PAINTED METAL BALLAST COVER, FABRICATED SEMI-SPECULAR METAL PARABOLIC 12-CELL LOUVER.
LAMPS: TWO 32-WATT T-8 F32T8/SP41 LINEAR FLUORESCENTS.
BALLAST: MOTOROLA M2-RN-T8-iLL-D-120
MOUNTING: RECESSED
TOTAL REFLECTANCE OF PAINT= 90.1 %
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
TOTAL INPUT WATTS= 61.6 AT 120.0 VOLTS
LUMEN TO CANDELA RATIO USED= 9.19
REPORT IS BASED ON 2850 LUMENS PER LAMP.

CANDELA DISTRIBUTION					FLUX
0.0	22.5	45.0	67.5	90.0	
0 1571	1571	1571	1571	1571	
5 1572	1569	1569	1572	1573	150
15 1511	1522	1547	1570	1579	438
25 1399	1427	1489	1556	1585	689
35 1242	1295	1411	1536	1593	888
45 1033	1125	1330	1613	1777	1057
55 744	900	1158	1257	1217	939
65 274	393	415	294	322	356
75 17	21	30	41	38	42
85 1	1	1	1	1	2
90 0	0	0	0	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1277	22.4	28.0
0- 40	2165	38.0	47.5
0- 60	4161	73.0	91.2
0- 90	4561	80.0	100.0
90-180	0	0.0	0.0
0-180	4561	80.0	100.0

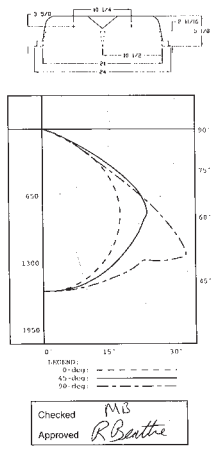
TOTAL LUMINAIRE EFFICIENCY = 80.0 %

CIE TYPE - DIRECT

PLANE	: 0-DEG	90-DEG
SPACING CRITERIA	: 1.3	1.6
SHIELDING ANGLES	: 25	29
PLANE	: 0-DEG	90-DEG
LUMINOUS LENGTH	:45.125	21.000

LUMINANCE DATA IN CANDELA/SQ M

ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	2389.	3075.	4109.
55	2121.	3301.	3469.
65	1060.	1606.	1246.
75	107.	190.	240.
85	19.	19.	19.



Checked MB
Approved R Berthe

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES • FIELD PERFORMANCE MAY VARY FROM LABORATORY PERFORMANCE.

LER = FP - 64.4 IW - 61.6 BF - 0.87
Comparative yearly lighting energy cost per 1000 lumens = $3.73

coefficients of utilization — zonal cavity method

RF		20			20			20		
RC		80			50			30		
RW		70	50	30	50	30	10	50	30	10
room cavity ratio	1	89	85	83	80	78	76	77	75	74
	2	81	76	71	71	68	64	69	66	63
	3	74	67	61	63	59	55	61	57	54
	4	69	59	53	56	51	47	55	50	46
	5	63	53	46	50	45	40	49	44	40
	6	58	48	41	45	40	35	44	39	35
	7	53	43	36	41	35	31	40	35	31
	8	50	39	32	37	32	28	36	31	27
	9	46	36	29	34	29	25	33	28	25
	10	43	33	27	32	26	22	31	26	22

visual comfort probability (VCP) average 100 fc; reflectances 80/50/20

room size			ceiling height					ceiling height			
W	L		8.5	10.0	13.0	16.0		8.5	10.0	13.0	16.0
20	20	luminaries lengthwise	80	75	76	86	luminaries crosswise	76	71	71	77
20	30		83	78	75	76		80	74	70	72
20	40		83	81	79	77		80	77	73	72
20	60		83	81	81	80		80	77	76	74
30	20		83	78	75	82		81	75	71	75
30	30		86	81	75	73		84	77	71	71
30	40		86	84	78	74		84	80	73	70
30	60		86	84	81	77		84	80	76	73
30	80		86	84	81	77		84	80	76	76
40	20		83	82	78	81		81	77	75	76
40	30		86	83	77	73		84	79	74	71
40	40		86	85	80	74		84	81	76	71
40	60		86	85	83	77		84	81	79	73
40	80		86	85	83	77		84	80	79	75
40	100		86	85	83	77		84	80	78	75
60	30		86	84	79	75		84	79	76	74
60	40		86	85	82	76		84	81	78	73
60	60		86	85	84	78		84	80	80	75
60	80		86	85	84	79		84	80	80	76
60	100		86	85	84	79		84	80	80	76
100	40		86	85	82	78		84	80	78	74
100	60		86	85	84	80		84	80	80	77
100	80		86	85	84	81		84	80	80	77
100	100		86	85	84	81		84	80	80	77

Ordering Information

Explanation of Catalog Number. Example: DPA2G12LS232120SOCP

Deepcel Plus Parabolic:	Body Style:	Fixture Width	Ceiling Type:	Number of Cells:	Louver Finish:	Single "V" Reflector	Lamp Quantity	Lamp Type/ Fixture Length:	Voltage:	Ballast Type:	Options:
		2				S	2				

Deepcel Plus Parabolic: Pre-anodized aluminum louver

Body Style: **A**=Air Supply **S**=Static

Fixture Width: 2

Ceiling Type:
G= Grid (lay-in T bar)
F= Flanged (over lap) Z spline and plaster frame
T= Slot grid or two-directional concealed T (see options)

Number of Cells:
12=2 rows of 6
18=3 rows of 6
24=3 rows of 8
32=4 rows of 8

Louver Finish:
L = Low iridescence Semi-specular (standard)
P = Low iridescence Specular
W = White Baked Enamel

Single "V" Reflector: S

Lamp Quantity: 2

Lamp Type/ Fixture Length:
32=32W T8
28=28W T5
54=54W T5
(Nominal 48")

Voltage:
120, 277 or **UNV**=120-277

Ballast Type:

	<20THD	<10THD
1-2 Lamp Elec. T8	**SO** *	**HI** *
1-2 Lamp 28W Elec. T5	–	**PI** †
1-2 Lamp 28W Elec. T5	–	**PG** ††
1-2 Lamp 54W Elec. T5	–	**PG** ††
LOL T8 Dimming	**PS**	–

Other dimming options. Consult factory.

*Instant Start Standard
†Instant Start (120, 277 or **UNV**)
††Program Rapid Start (**UNV** only)

NOTE:
For **T8 UNV**, you must use **HI** Ballast Code.

Options: Add appropriate suffix to catalog no., ie: (CP)

DP Standard Deepcel

DY For NYC Code – I.B.E.W. Manufactured

ND For NYC Code – Local 3 Manufactured 5½" Deep Body

Options/Accessories

Plaster Frame: Catalog Number: **PF24**.
Continuous Row Installation: For F type fixtures, half width flanges are required between fixtures. Order Catalog Number: **2FC TRIM CSP** (each joint).
Radio Interference Filter: To order one RIF per fixture; SUFFIX: **R**. To order one RIF per ballast; SUFFIX: **B**.
Electrical Wiring Options: Consult factory.
Air Closure Strip: SUFFIX: **ACS4** (factory installed).
Drywall Kit: Order Catalog Number: **FK92X4**. (Request Folio OA30-10 Rev. A).
Chicago Plenum: SUFFIX: **CP**.

Specifications

Performance: In an installation of 2 lamp 32W luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .85. To prevent glare the VCP shall be not less than 75 either lengthwise or crosswise (at 100fc level) and the average brightness at 65° shall not exceed 1606 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 72.0%.
Air Handling (DPA only) side air pasaages for air supply or air return. Supply air is discharged vertically. Optional side closure strips. Air return is also provided through the lamp compartment through fixture body ends.
Materials: **Chassis parts** are die-formed code gauge cold rolled steel. Housing is ribbed for rigidity with side rails hemmed over and housing ends turned-in for safe handling. **Louver** is pre-anodized aluminum (Coilzak® or equal.

Specifications (continued)

Finish: **Chassis exterior**–black baked polyester enamel. **Cavity**–white baked polyester enamel minimum 86% reflectance. Phosphate undercoating. **Louver**–low iridescence semi-specular anodized vertical grain aliminum reflector sheet is standard.
Electrical: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.
Labels: I.B.E.W. UL and ULc Listed.

Job Information	Type:

Lightolier a Genlyte company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
© 2007 a Genlyte company

LIGHTOLIER®